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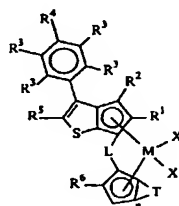
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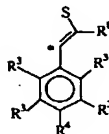
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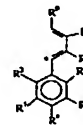
(54) Title: PROCESS FOR THE COPOLYMERIZATION OF ETHYLENE



(I)



(II)



(III)

(57) Abstract: A process for producing a polymer of ethylene containing from 0.1 to 99 % by mol of one or more derived units of alpha-olefins and optionally from 0 to 5% by mol polyene, comprising contacting, under polymerization conditions, ethylene, one or more alpha-olefins and optionally said polyene, in the presence of a catalyst system obtainable by contacting: a) a metallocene compound of formula (I): wherein M is zirconium, hafnium or titanium; X, is a hydrogen atom, a halogen atom, or a hydrocarbon group; R<sup>1</sup> is a hydrocarbon group; R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>, equal to or different from each other, are hydrogen atoms, or hydrocarbon groups; R<sup>6</sup> is a hydrocarbon group; L is a divalent bridging group, and T is a divalent radical of formula (II) or (III): wherein R<sup>8</sup> and R<sup>9</sup> are hydrogen or hydrocarbon groups; and b) an alumoxane or a compound capable of forming an alkyl metallocene cation.